

Fig. 1

Title: METHOD AND APPARATUS FOR ELECTROSTATIC SPRAY
Inventor(s): WANG ET AL.
Appln. No. NEW
Docket #: 42173-011

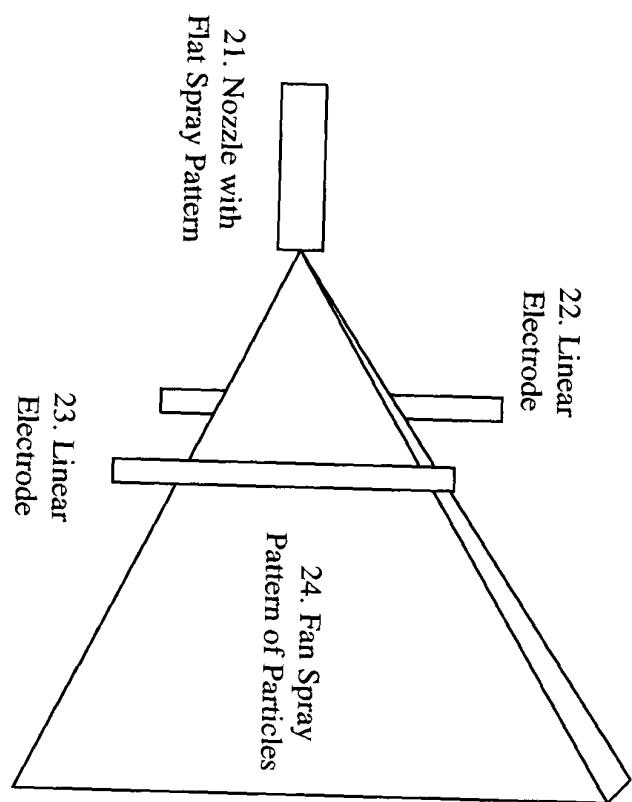


Fig. 2

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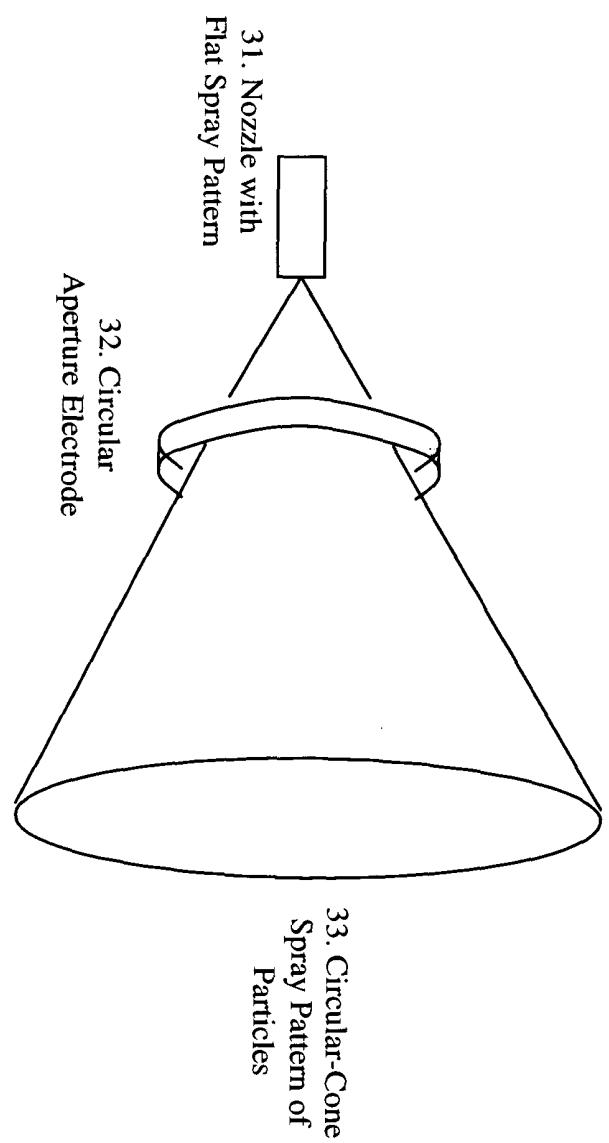


Fig. 3

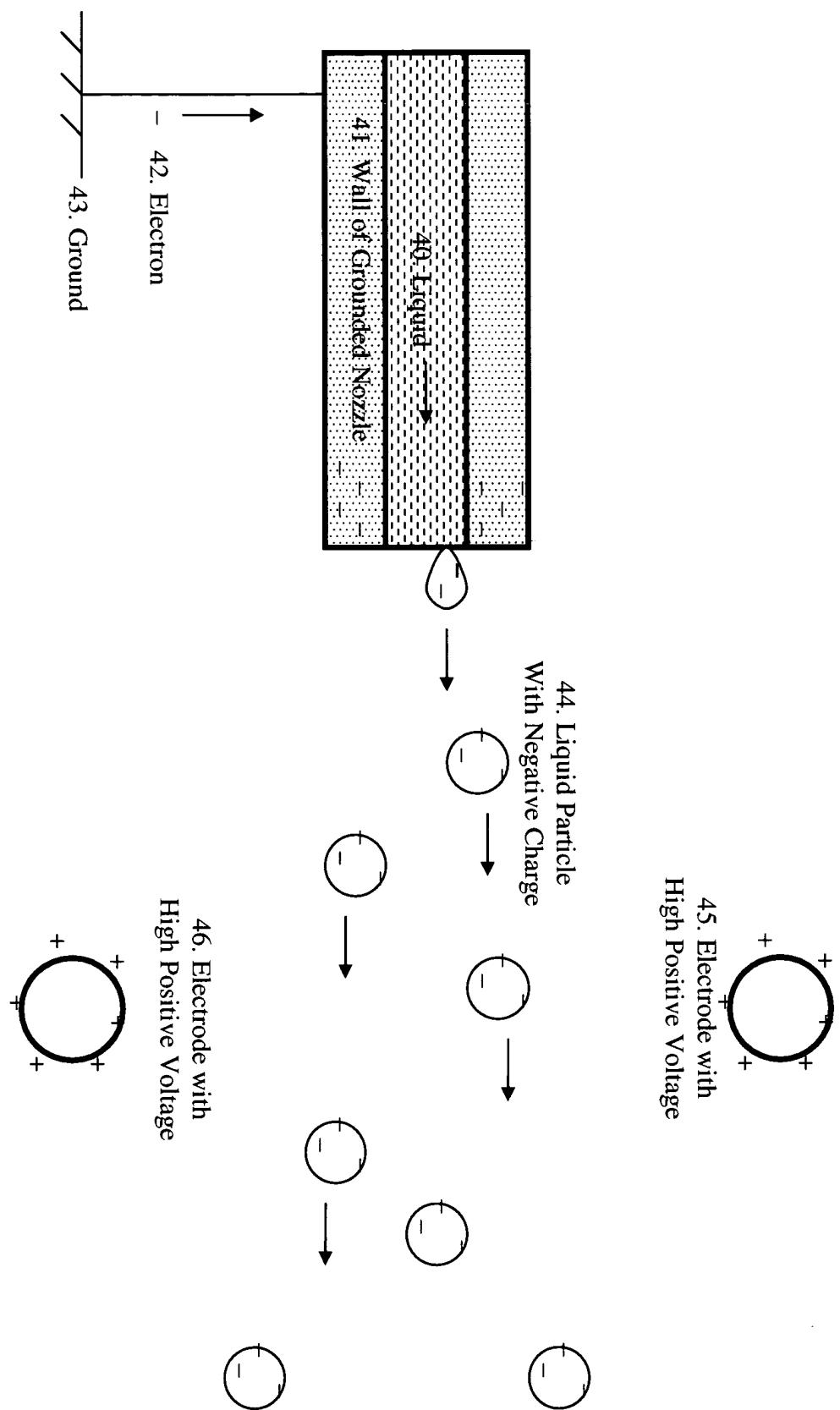


Fig. 4

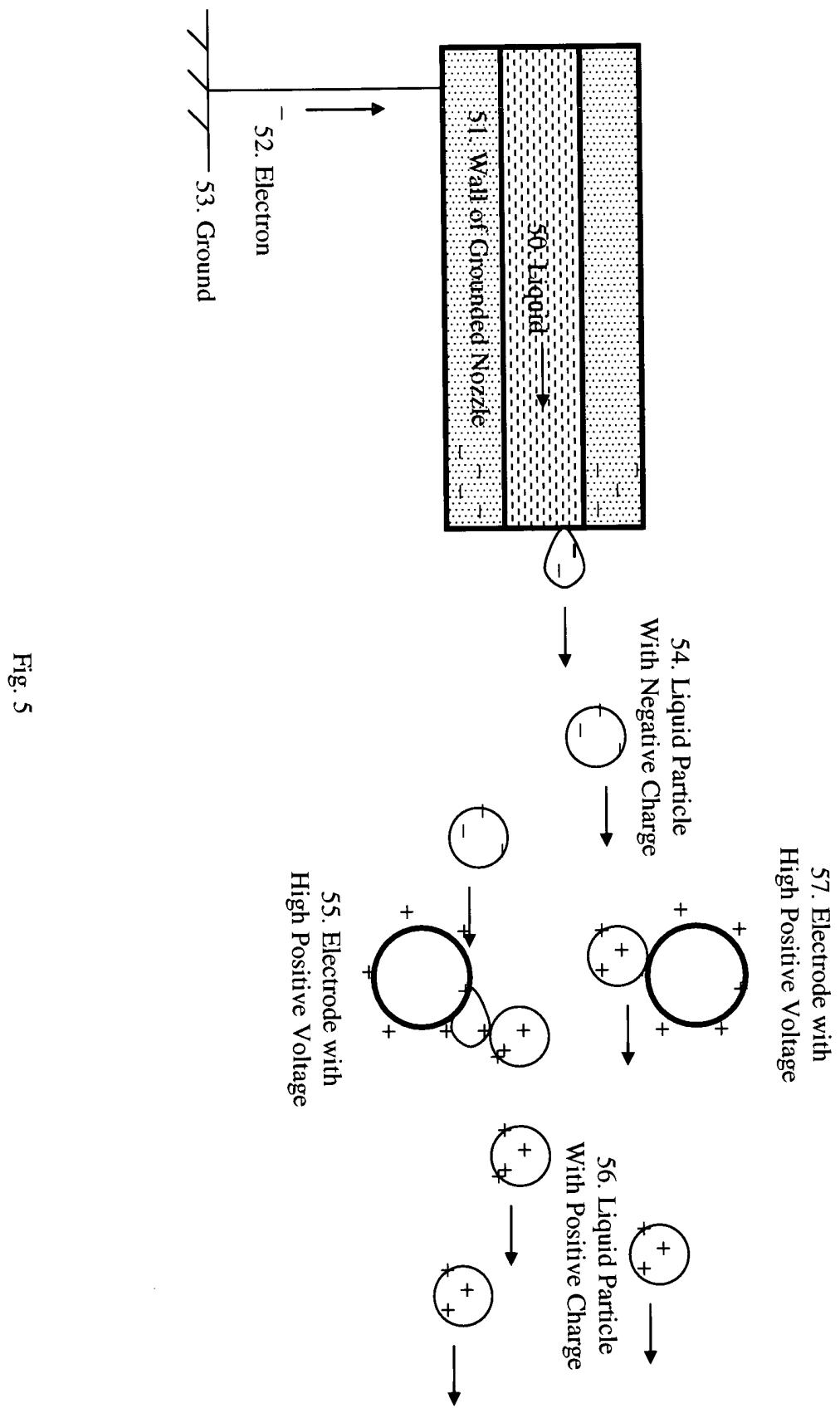


Fig. 5

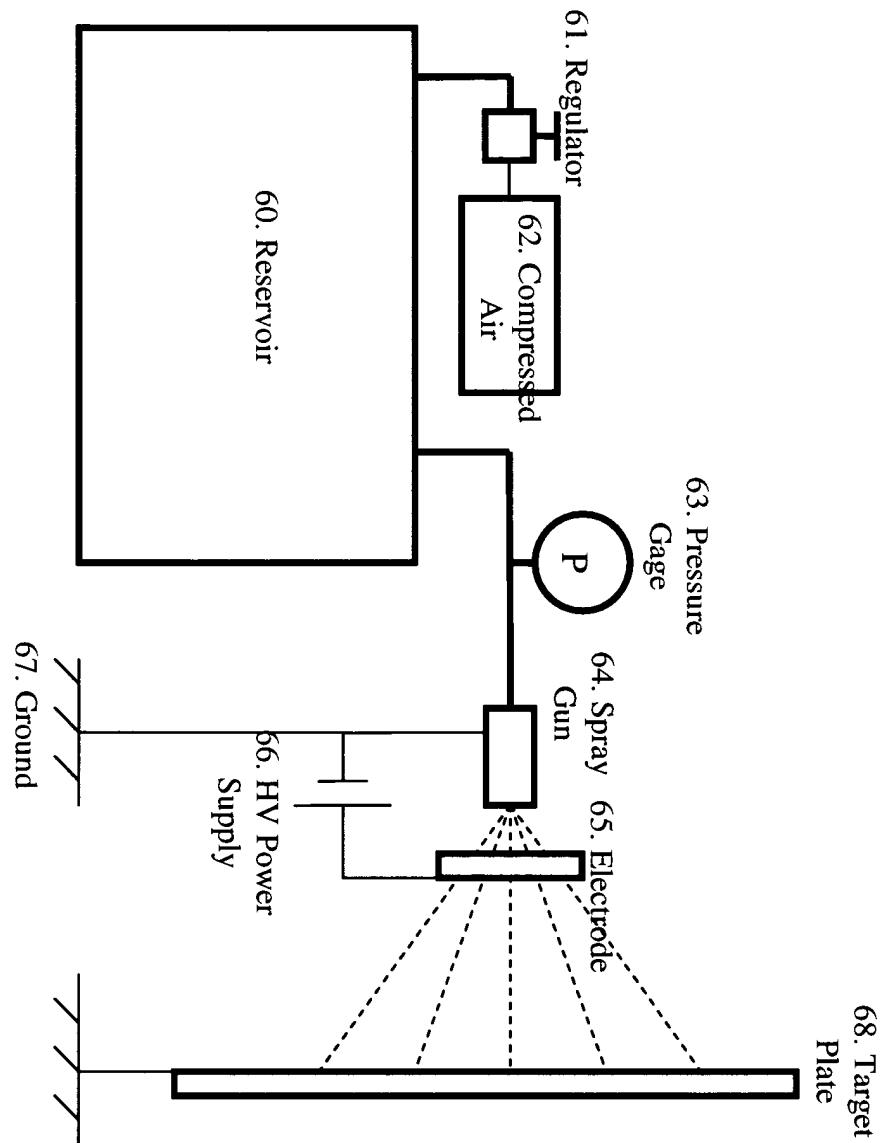


Fig. 6

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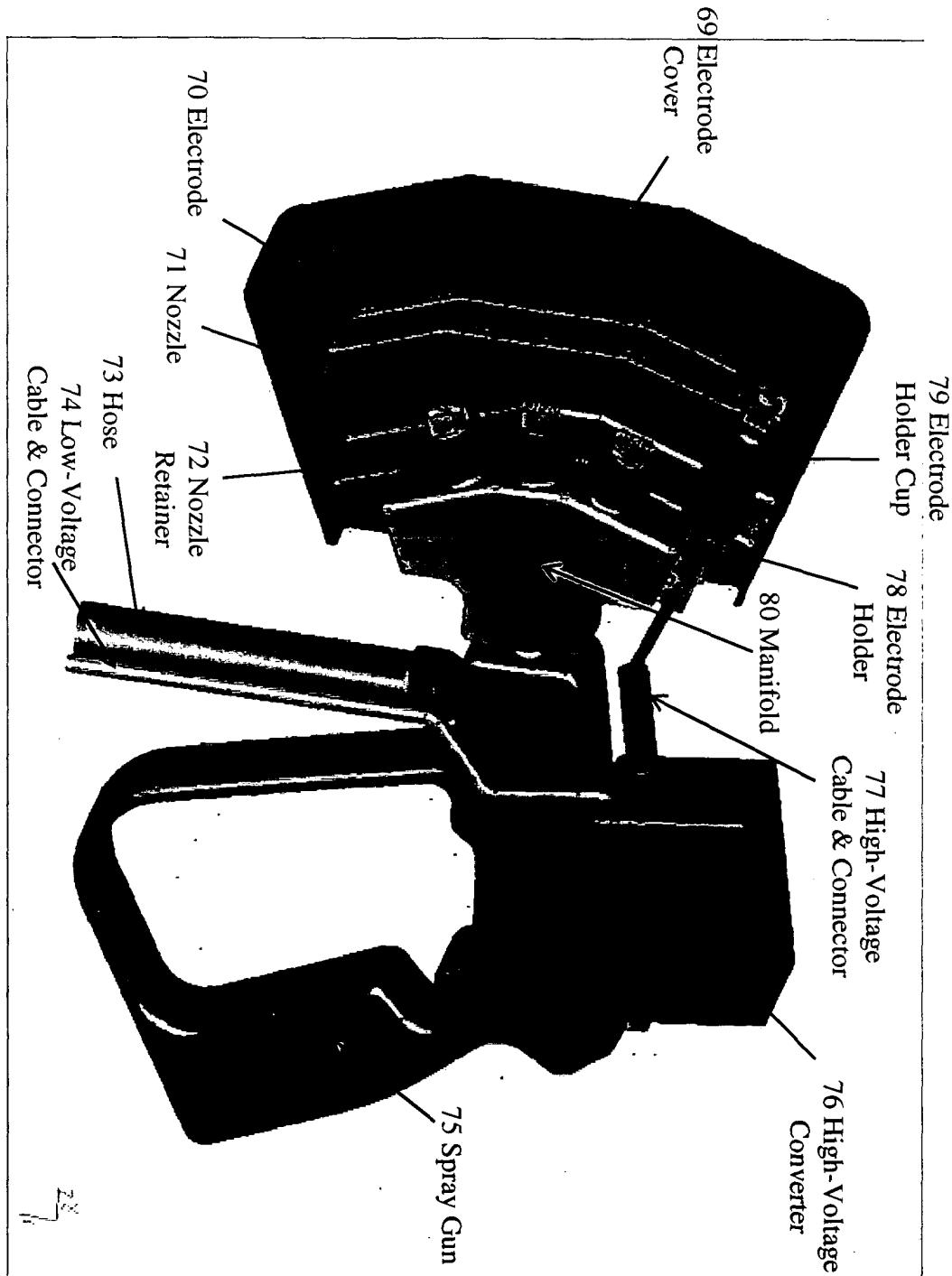


Fig. 7

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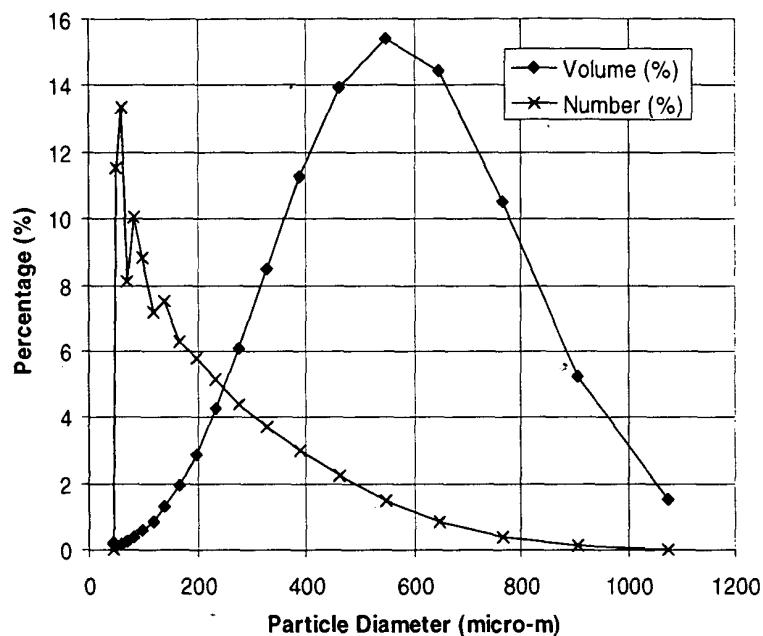
Particle Size Distribution of 250050 at 30 psi

Figure 8. Size distribution of water aerosols sprayed at 30 psi with 250050 nozzle made by Spray System Co. (The data is provided by Spray System Co.)

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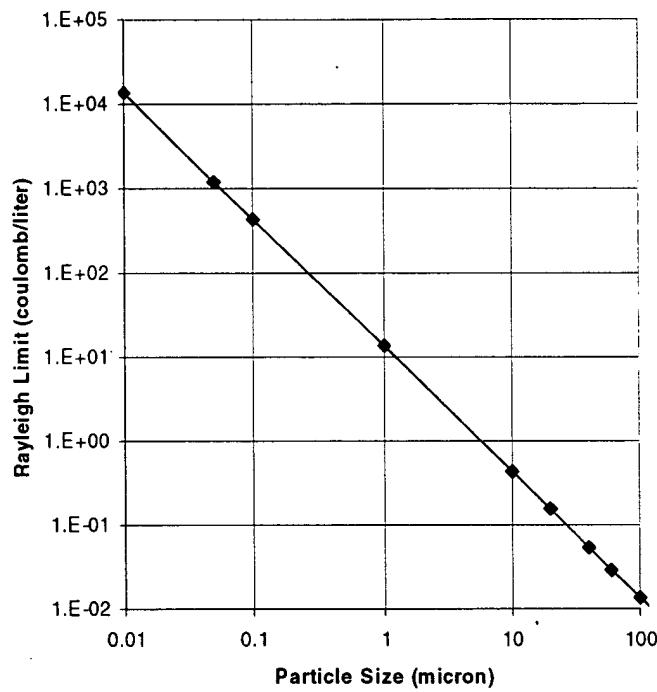


Figure 9. Maximum charge density on water aerosols based on the aerosol's diameter

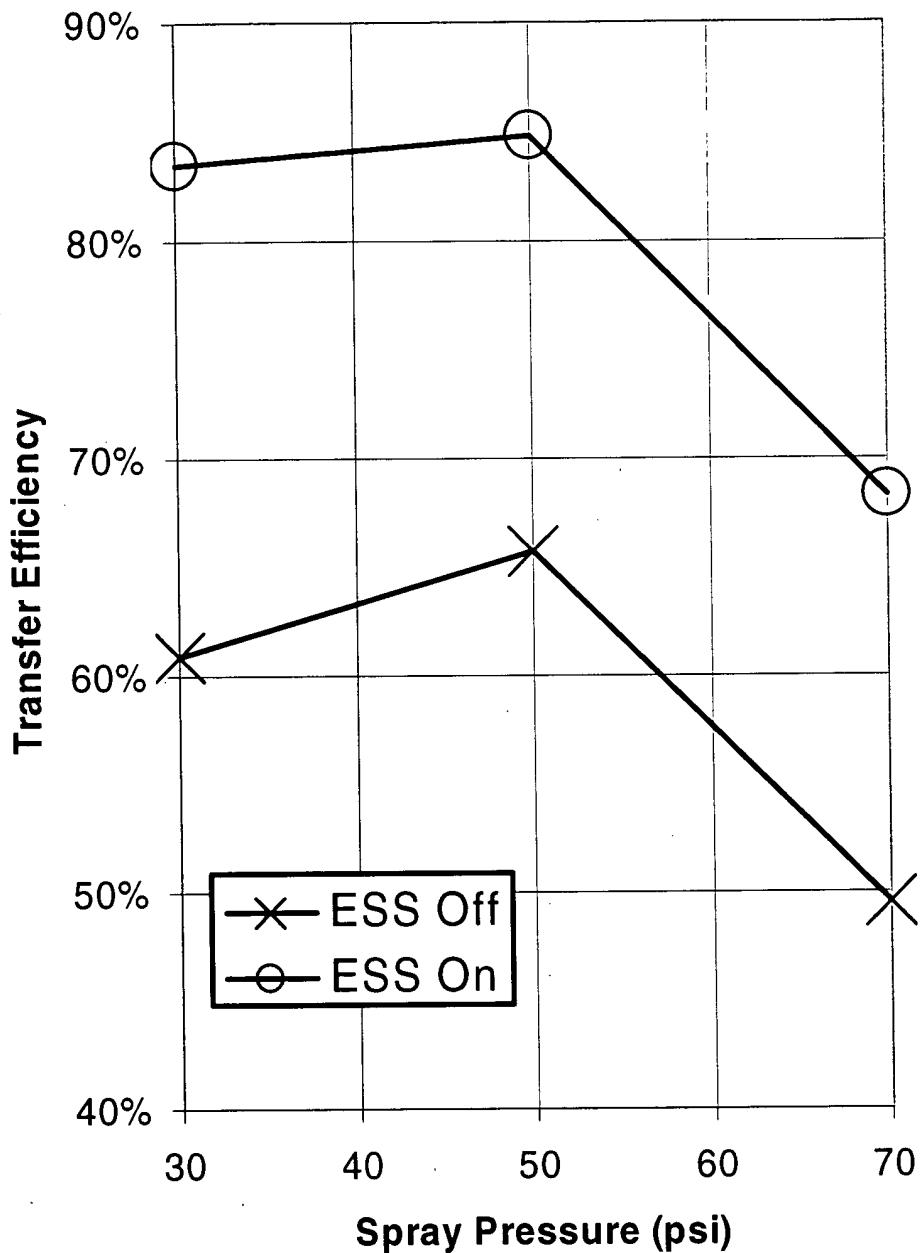
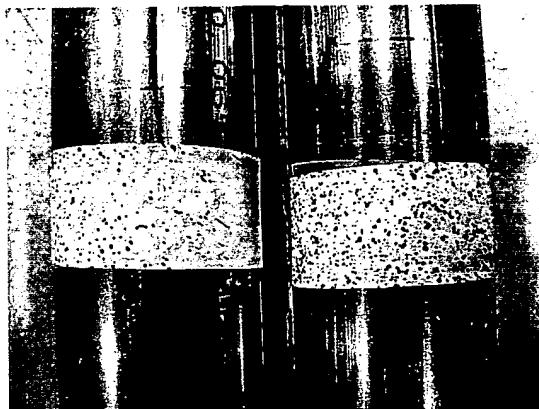
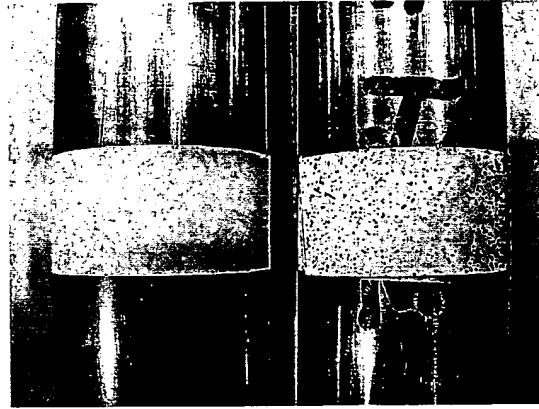


Figure 10 Comparison of transfer efficiency with and without electrostatic charge.

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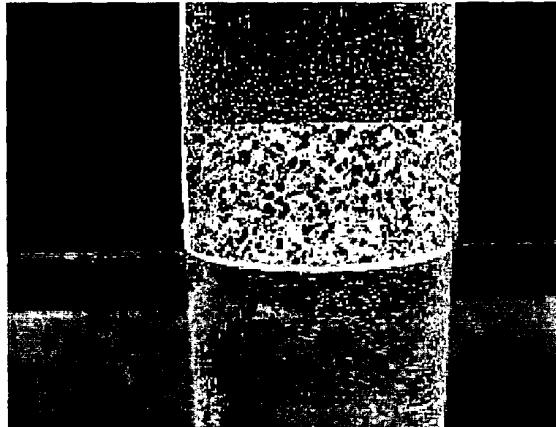


(a) Front

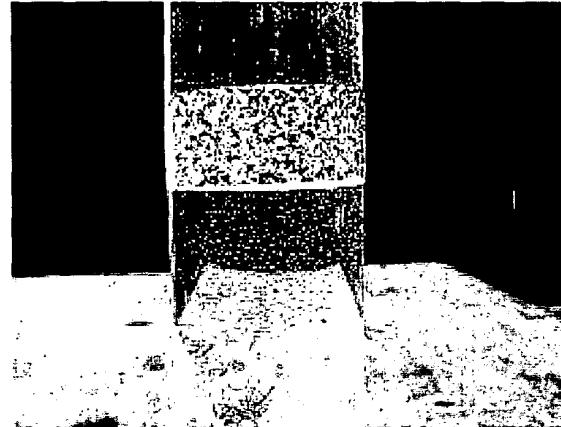


(b) Back

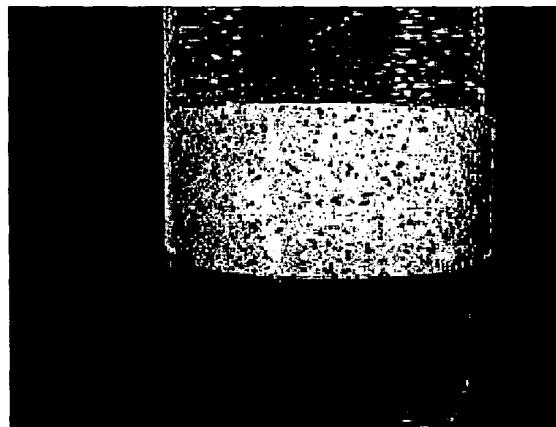
Figure 11. Comparison of aerosol spray with and without electrostatic charge on grounded stainless steel cylinder.
In both pictures, the left cylinder was sprayed without electrostatic charge and the right cylinder does.



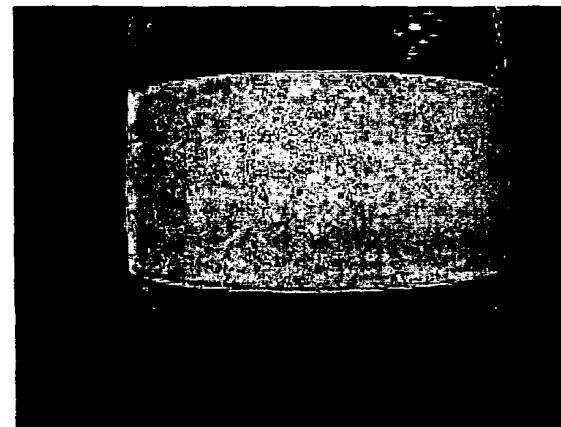
(a) Front of grounded acrylic cylinder



(b) Front of un-grounded acrylic cylinder



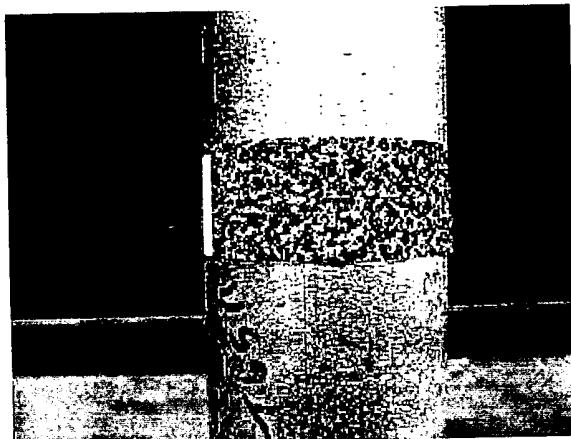
(c) Back of grounded acrylic cylinder



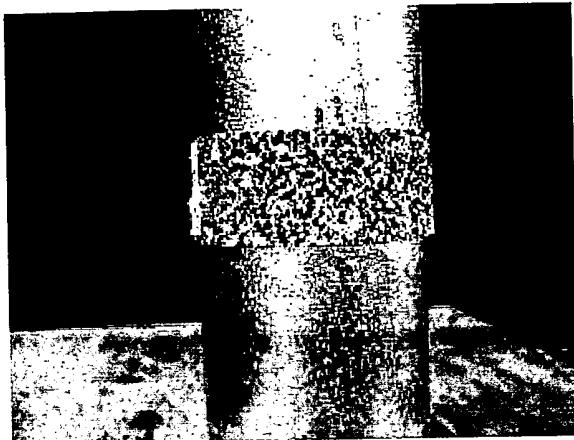
(d) Back of un-grounded acrylic cylinder

Figure 12a-d. Comparison of electrostatic spray on acrylic cylinder with and without ground connection.

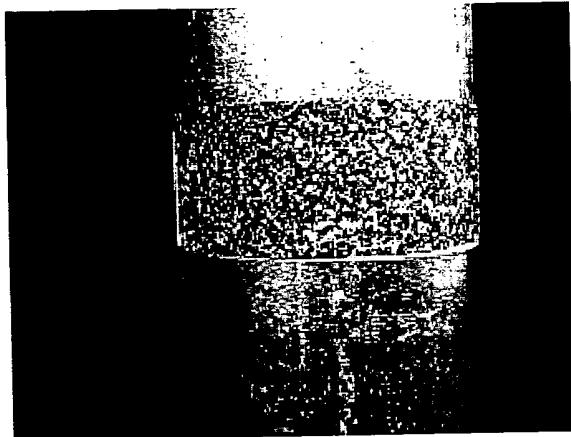
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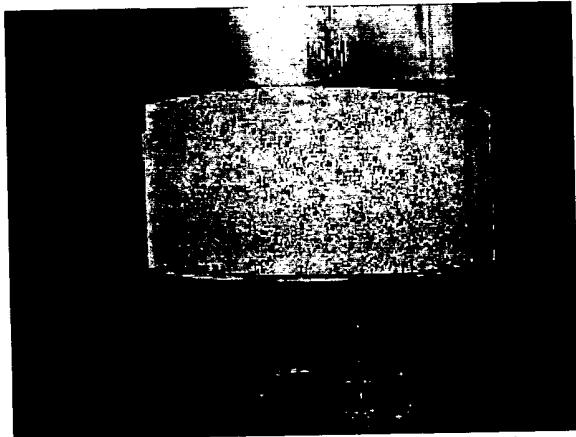
(a) Front of grounded Al6061 cylinder



(b) Front of un-grounded Al6061 cylinder



(c) Back of grounded Al6061 cylinder



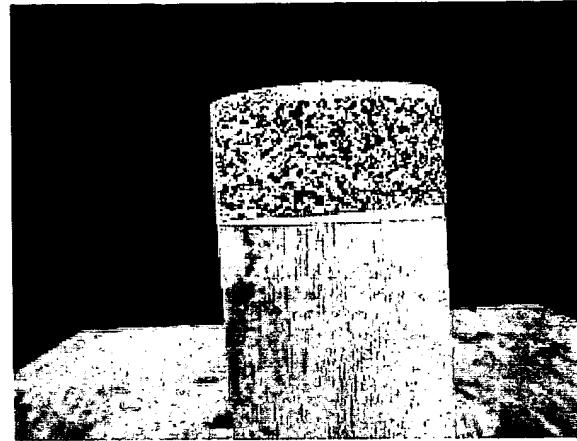
(d) Back of un-grounded Al6061 cylinder

Figure 13a-d. Comparison of electrostatic spray on Aluminum 6061 alloy cylinder with and without ground connection.

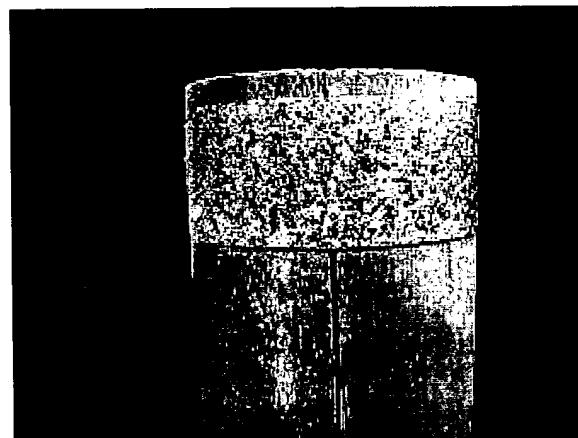
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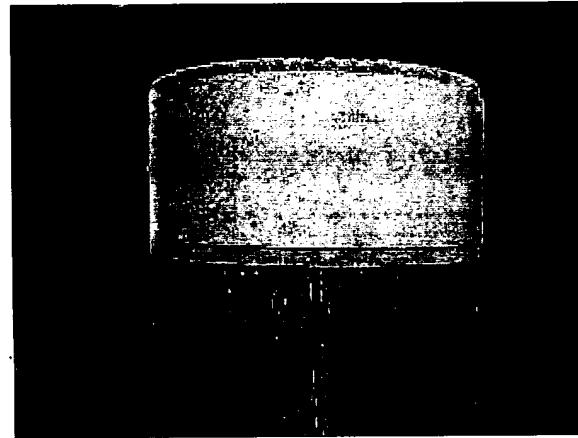
(a) Front of grounded wood cylinder



(b) Front of un-grounded wood cylinder



(c) Back of grounded wood cylinder



(d) Back of un-grounded wood cylinder

Figure 14a-d. Comparison of electrostatic spray on wood cylinder with and without ground connection.